

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D130-701 REV. E AND INSTRUCTIONS FOR  
CONTINUED AIRWORTHINESS ICA-D130-701 REV. 3 OR LATER APPROVED REVISION

REF. TCCA STC: SH94-14

REF. FAA STC: SR00213NY

REF. EASA STC: 10016996

REF. ANAC STC: 2007S03-03

## 1.0 PURPOSE

The purpose of this Dart Service Instruction (DSI) is to provide instructions to add the D5393-041 strut assembly on the D130-701-043 Basket Installation at CHG 006 or earlier to reduce longitudinal oscillations. One DSI 9740-011 Strut kit must be applied to each Basket. The DSI 9740-011 Strut kit will be incorporated into D130-701-043 at CHG 007 and subsequent.

## 2.0 PROCEDURE

1. Enlarge the center hole on the D4039-041 Bracket to  $\phi 0.257"$  per Figure 1. Touch up hole with Alodine 1200/1201 per MIL-C-5541 and prime per Aircraft Maintenance Manual.
2. Loosely install the D5395-1 Bracket and associated hardware on the fwd side of the D4039-041 Bracket as shown in Figure 1. Loosely install the D5394-041 Bracket on the Basket frame per Figure 2.
3. Install the D5393-041 Strut Assembly onto the D5395-1 Bracket and D5394-041 Bracket with 2x MS17984-C405 pip pins. Adjust the AN665-34R clevises as required.
4. Remove one of the MS17984-C405 pip pins and turn the AN665-34C clevis one half turn shorter so the rod is in tension. Reinstall the strut assembly and tighten the NAS509-2C Jam Nut. Torque the AN4-6A bolt and AN3-11A bolt per Table 1.
5. Secure the NAS509-4C jam nuts using lock wire per AC 43.13 or MS33540. After adjustment, use lockwire in the hole of the AN665-34R clevises to check for proper engagement of threads. It is acceptable to flip MS17984-C405 Quick Release Pin orientation to facilitate D5393-041 Strut Assembly installation.
6. Update aircraft logbook to indicate installation of the DSI 9740-011 Strut kit and adjust aircraft weight and balance record with weight and balance data provided in Section 4.0 of this document.

TABLE 1 - TORQUE VALUES

FASTENER TYPE	TORQUE (IN-LB)
#10	20-25
1/4"	50-70

CANADA	
DEPARTMENT OF TRANSPORT	
AIRCRAFT CERTIFICATION	
BRANCH	
DAO # 01-O-01	
APPROVED	
BY:	D. SHEPHERD (DE # 02)
DATE:	16.01.26
CERT. NO.:	SH94-14
ISSUE NO.:	7

A	NEW ISSUE		VS	16.01.26
REV.	DESCRIPTION		BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWN	VS			
CHECKED	RF	DRAWING NO.	REV. A	
MFG. APPR.	N/A	DSI 9740	SHEET 1 OF 4	
APPROVED	HS	TITLE	SCALE	
DE APPR.		STRUT ADDITION	NTS	
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### 3.0 PARTS LIST

QTY -011	PART NUMBER	DESCRIPTION
X	DSI 9740-011	STRUT KIT
1	D5393-041	STRUT ASSEMBLY
1	D5394-041	BRACKET
1	D5395-1	BRACKET
1	AN3-11A	BOLT
1	AN4-6A	BOLT
1	MS21042L3	NUT
1	MS21042L4	NUT
2	NAS1149F0363P	WASHER
2	NAS1149F0463	WASHER

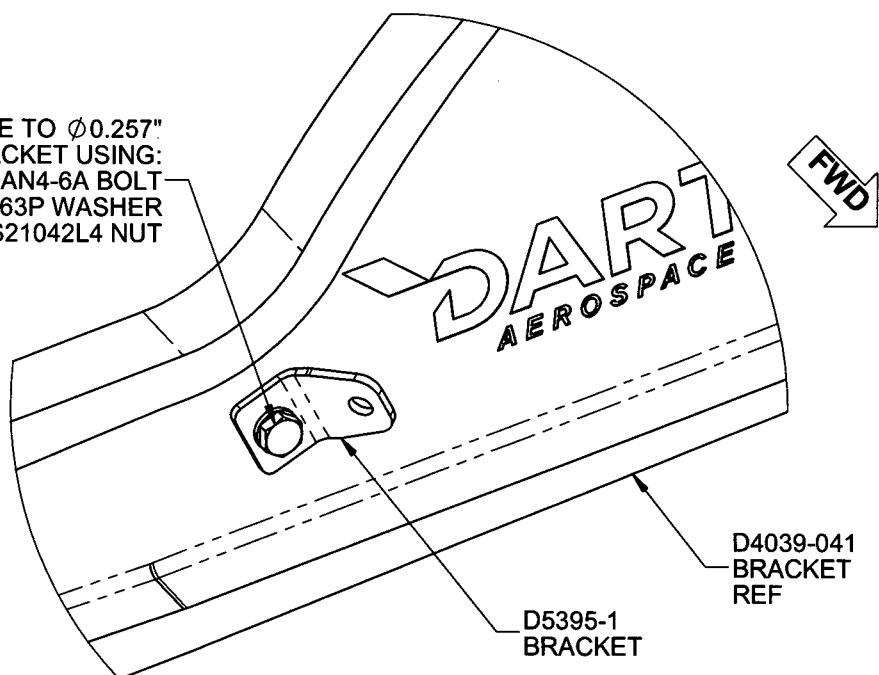
### 4.0 WEIGHT AND BALANCE

INSTALLATION	WEIGHT	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
DSI 9740-011 Strut Kit (LH)	0.90 lb 0.41 kg	- 37.6 in - 0.96 m	- 33.8 in-lb - 0.39 m-kg	110.6 in 2.8 m	99.5 in-lb 1.15 m-kg
DSI 9740-011 Strut Kit (RH)	0.90 lb 0.41 kg	37.6 in 0.96 m	33.8 in-lb 0.39 m-kg	110.6 in 2.8 m	99.5 in-lb 1.15 m-kg

CANADA	
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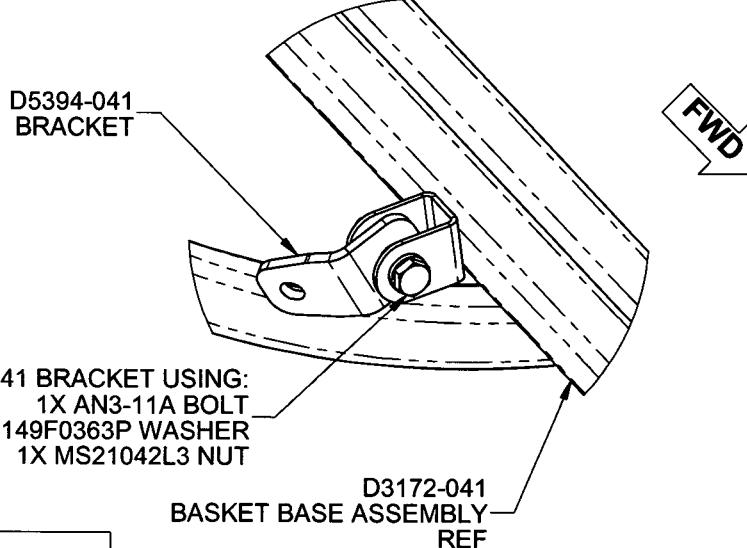
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ENLARGE HOLE TO  $\phi 0.257"$   
 INSTALL D5395-1 BRACKET USING:  
 1X AN4-6A BOLT  
 2X NAS1149F0463P WASHER  
 1X MS21042L4 NUT



**FIGURE 1: D5395-1 BRACKET INSTALLATION**  
 (LH INSTALL SHOWN, RH OPPOSITE)

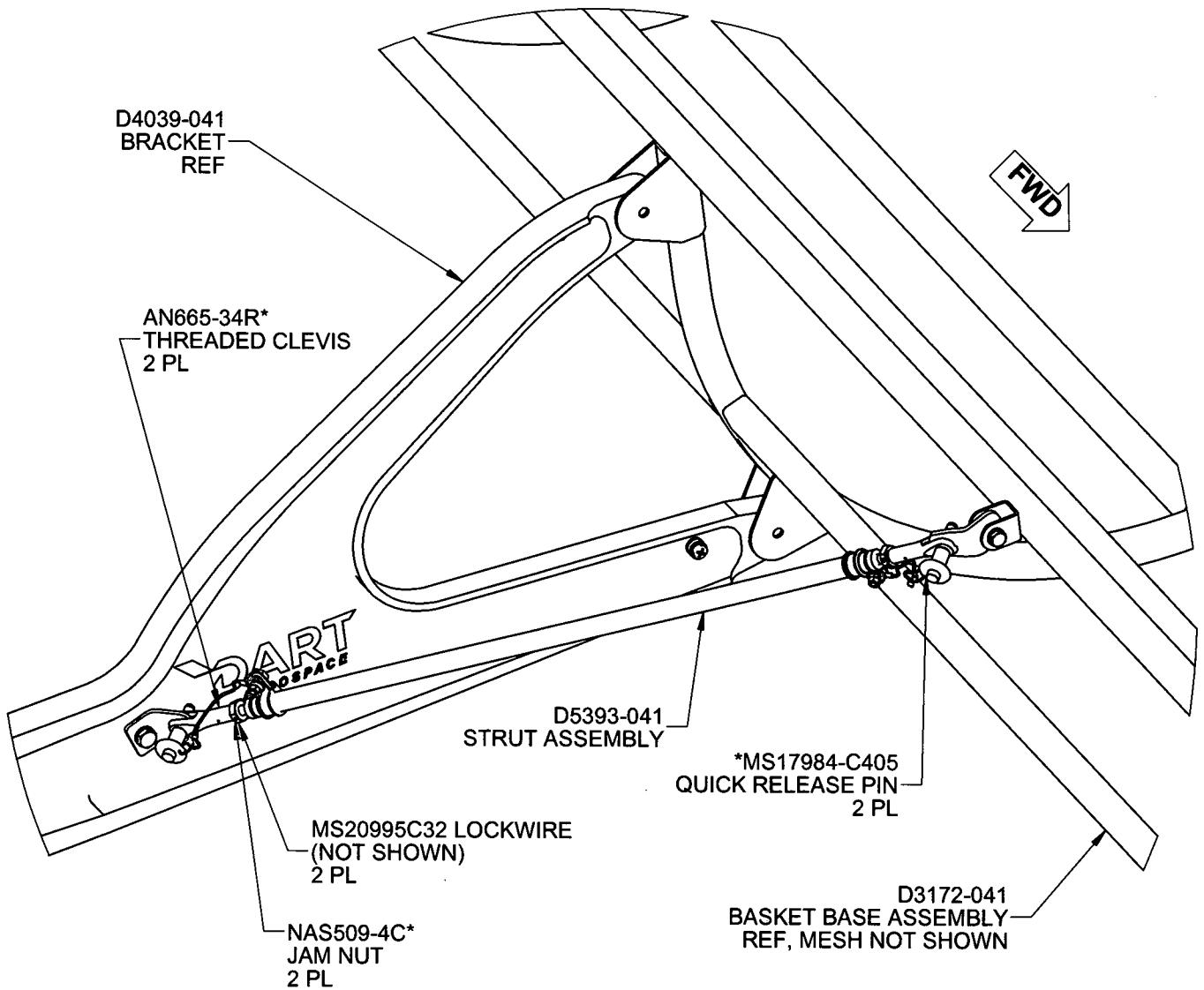
INSTALL D5394-041 BRACKET USING:  
 1X AN3-11A BOLT  
 2X NAS1149F0363P WASHER  
 1X MS21042L3 NUT



**FIGURE 2: D5394-041 BRACKET INSTALLATION**  
 (LH INSTALL SHOWN, RH OPPOSITE)

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\*PART OF D5393-041 STRUT ASSEMBLY

**FIGURE 2: D5393-041 STRUT INSTALLATION**  
(LH INSTALL SHOWN, RH OPPOSITE)

CANADA	
DEPARTMENT OF TRANSPORT	
AIRCRAFT CERTIFICATION	
BRANCH	
DAO # 01-O-01	
<b>APPROVED</b>	
BY:	<i>[Signature]</i>
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MFG. APPR.	N/A	DSI 9740	SHEET 4 OF 4
APPROVED	HS	TITLE	
DE APPR.	<i>[Signature]</i>	SCALE	
DATE	16.01.26	NTS	

**STRUT ADDITION**

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